



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

PAUL O'CONNOR, et al

Docket: ACH 2947US

Serial No.: 10/603,274

Examiner:

Filing Date: June 25, 2003

Group Art Unit: 1754

Title: FCC CATALYST FOR REDUCING
THE SULFUR CONTENT IN
GASOLINE AND DIESEL

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

☒ Transmitted herewith find the document(s) related to this application.

1. TRANSMITTAL LETTER IN DUPLICATE;
2. INFORMATION DISCLOSURE STATEMENT;
3. PTO-1449 FORM;
4. DOCUMENTS (22);
5. CERTIFICATE OF MAILING;
6. POSTCARD

The total fee believed due is **\$0.00**. Please charge this amount and any other fees which may be due (including filing fees under 37 CFR 1.16 and processing fees under 37 CFR 1.17) to Deposit Account No. 01-1350. If an extension of time is required but has not been requested above, Applicant hereby petitions for an extension of time sufficient for the attached document(s) to be timely. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Ralph J. Mancini
Attorney for Applicant(s)
Reg. No. 34,054

Akzo Nobel Inc.
Intellectual Property Department
7 Livingstone Avenue
Dobbs Ferry, NY 10522-3408
Tel No.: (914) 674-5465

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First-Class Mail in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on:

September 25, 2003

Diane L. Moxley



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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In accordance with the requirements of 37 CFR §1.56, applicants submit the documents attached hereto to be made of record in the above-identified case. A listing of said documents on form PTO-1449 is also attached.

The present Information Disclosure Statement is being filed within three months of the filing date, therefore, no filing fee is believed to be required. If a filing fee is required, the Commissioner is hereby authorized to charge applicants' deposit account 01-1350 for the full amount of said fee.

Applicants hereby draws the attention of the Examiner to copending U.S. Serial No. 10/072,630.

CERTIFICATE OF MAILING

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Diane L. Moxley

This Statement is not intended to represent that no better art exists. Applicants reserve the right to contest the applicability of the documents attached hereto as prior art in the event that any information is discovered which demonstrates that said documents do not qualify as prior art.

Consideration of the present Information Disclosure Statement is respectfully requested. The claimed invention is, however, deemed to represent a patentable departure from the teachings of the prior art.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Ralph J. Mancini', with a stylized, flowing script.

Ralph J. Mancini
Attorney for Applicant(s)
Reg. No. 34,054

Akzo Nobel Inc.
Intellectual Property Department
7 Livingstone Avenue
Dobbs Ferry, NY 10522-3408
Tel No.: (914) 674-5465



INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO-1449 (modified)				Atty. Docket #		Serial No.	
				ACH2747US		10/603,274	
				Applicant P. O'CONNOR, et al.			
				Filing Date June 25, 2003		Group Art Unit 1754	
U.S. PATENT DOCUMENTS							
Init	Document No.	Issue Date	Name	Class	Subclass	Filing Date	
	4,153,534	05/08/79	Vasalos	208	120	12/08/76	
	4,221,677	09/09/80	Vasalos, et al	252	455	03/19/79	
	4,363,720	12/14/82	Hirschbert, et al	208	120	05/13/81	
	4,458,026	07/03/84	Reichle	502	80	05/25/83	
	4,522,704	06/11/85	Bertsche	208	113	12/09/83	
	5,002,654	03/26/91	Chin	208	121	12/28/89	
FOREIGN PATENT DOCUMENTS							
	Document No.	Publ. Date	Country	Class	Subclass	Translation	
						Yes	No
	0 278 535 B1	02/13/91	Europe	C10G	11/04		
	0 609 971 B1	11/04/98	Europe	C10G	11/05		
	99/49001	09/30/99	PCT	C10G	25/00		
	01/12570 A1	02/22/01	PCT	C04B	33/02		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	Applied Catalysis A , <u>Sulphur Reduction of Fluid Catalytic Cracking (FCC Naphtha by an in Situ Zn/Mg(al) O FCC Additive</u> , Myrstad, et al, General 187 (1999) pgs. 207-212						
	Catalysis Today, <u>Cracking Catalyst Additives for Sulfur Removal from FCC Gasoline</u> , P-O.F. Andersson, et al, (1999), pgs. 565-573						
	Applied Catalysis B : Environmental 4 ; <u>Optimization of SO_x Additives of FCC Catalysts based on MgO-Al₂O₃ Mixed Oxides Produced from Hydrotalcites</u> , A. Corma, et al, (1994), pgs. 29-43						
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Init	Document No.	Issue Date	Name	Class	Subclass	Filing Date	
FOREIGN PATENT DOCUMENTS							
	Document No.	Publ. Date	Country	Class	Subclass	Translation	
						Yes	No
	02/064499 A3	08/22/02	PCT	C01B	13/36		
	02/064504 A1	08/22/02	PCT	C01F	7/00		
	02/072474 A1	09/19/02	PCT	C01F	7/00		
	97/09113	03/13/97	PCT	C01B	17/78		
	11300210-A	11/02/99	JAPAN with Abstract	B01J	29/076	X	
	2 345 293 A	07/05/00	UNITED KINGDOM	C10G	55/06		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	Applied Catalysis A : General 192, <u>Effect of Nickel an Vanadium on Sulphur Reductoin of FCC Naphtha</u> , T. Myrstad, et al, (2000), pgs. 290-305						
	<u>English Abstract of Ann. Chim. , Mechanisms of Reactions Catalyzed by Silica-Alumina, IV. Chemical Pretreatments of the Catalysts : new Catalytic Surfaces and Their Activity in Cumene Cracking</u> , Farne, et al, 68 (1978) pgs. 481-496						
	Search Report of Priority Application EP 02078742, dated 20 February 2003						
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